

## **ABSTRACT**

### **CONNECTOR FOR IMPACT MOUNTED BUNDLED OPTICAL FIBER DEVICES**

In the connector of the present invention two impact mounted seven optical fiber ferrules are aligned through the alignment of the central optical fiber and the alignment of at least one of the outer optical fibers in the ferrules. Due to the symmetrical, repeatable orientation of the optical fibers in the ferrule, all of the remaining optical fibers will automatically be aligned when the central optical fiber and one of the outer optical fibers are aligned, thus greatly simplifying the alignment process for the plurality of optical fibers within the connector of the present invention. In a preferred embodiment of the present invention each of the seven optical fibers is color coded. The optical fibers within the transmitting and receiving optical fiber bundles are arranged in a mirror image orientation, such that light signals transmitted on a particular colored optical fiber is received within a similarly colored optical fiber.